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PUBLICATIONS RECEIVED.

Essentials of Geometry. By Alfred H. Welch, A. M. 267 pages 8vo. Chicago: S. C. Griggs and Company. 1883.

We have many good text books on Geometry, but it would be difficult to find one containing all the meritorious features of this book. The author's style is clear, concise, and logical, and the exercises and suggestions that are interspersed through the work will be found of much value to the student. Besides, the publishers have greatly enhanced the value of the book by a typography and diagrams that could not be excelled.

Steam Heating: An exposition of the American practice of Warming Buildings by Steam. By Robert Briggs. 108 pages 18mo. New York: D. Van Nostrand. 1883. (No. 68, Van Nostrand's Science Series.)

Chemical Problems; With brief statement of the Principles involved. By James C. Foye, A M., Ph. D. 141 pages 18mo. New York: D. Van Nostrand. 1883. (No. 69, Van Nostrand's Science Series.)

Results of some experiments made to determine the variations in length of certain bars at the temperature of melting ice; by R. S. Woodward, E. Wheeler, A. R. Flint and W. Voigt [From the American Journal of Science, Vol. XXV, June, 1883.]

Nouveau calcul des Mouvements Elliptiques, par Edouard Sang. Turin: 1879.

In a letter dated at Edinburgh, Scotland, August 17, 1883, Professor Sang writes: "In No. 3 of the Analyst, there is a paper on Kepler's Problem. I take the liberty of sending you a copy of a solution which, by help of the appropriate tables, gives the true from the mean, or the mean from the true anomaly with one or two minutes labour. * * *"

Astronomical Papers prepared for the use of the American Ephemeris and Nautical Almanac. Vol. I, part VI. Washington: 1882.

Professional Papers of the Signal Service:

No. VIII. Part I. *The Motions of Fluids and Solids on the Earth's Surface*, by *Professor* William Ferrel. Reprinted, with Notes by Frank Waldo. Washington: 1882.

No. XII. *Popular Essays on the Movements of the Atmosphere.* By Professor William Ferrel. Washington: 1882.

No. IX. *Charts and Tables, showing Geographical Distribution of Rainfall in the United States.* By H. H. C. Dunwoody. Washington: 1883.

No. XI. *Meteorological and Physical Observations on the East Coast of America*, by Orray Taft Sherman. Washington: 1883.

ERRATA.

On page 63, line 11, for" By Prof. M. L. Comstock", read Selected by Prof. M. L. Comstock.
" " 136, lines 14 and 30, "(6)" and "(14) should each be one line higher on the page,
" " 152, last line, for y read y^2.
representing respectively $y = a^x$ and $y = e^x$.
" " 157, " 8 and 9, for $—\frac{1}{2}x_1^2$ and $—\frac{1}{2}y_1^2$, read $—\frac{1}{2}x_1$ and $—\frac{1}{2}y_1$.